

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF SAFE DRINKING WATER TECHNICAL REVIEW FORM

PACKED COLUMN AERATION (N.J.A.C. 7:10-11.15(g))

| Water Purveyor | | PWSID# M | | Munici | unicipality | | | |
|---|-----------------------------------|----------------------|---|---------|-----------------------|----------|------------------|--|
| Construction Materi | | ninum ıless Steel | ☐ Fiberglass ☐ Other: | | | | | |
| Column Diameter: _Column Height: _Packing Height: _ | | | Water Flow Ra Liquid Loading Air Flow Rate: Air to Water R | Rate: | | | | |
| Packing Type: | ☐ Tripacks ☐ Tellerettes ☐ Other: | _ | J Rachig Rings J Pall Rings | | Saddles Structured | l Packii | ng | |
| Packing Size: | | | | | | | | |
| Sources to B | e Served: | Actual o | r Anticipated Condition | ons: | | | | |
| Well No. | Capacity (gpm) | | Contaminant | | el Found ppb) | _ | gn Level ppb) | |
| | | | | | | | | |
| | | _ | | | YES | NO | N/A | |
| Is the column de found to below to | | contaminants fr | om twice the maximu | m level | О | П | П | |
| 2. Is the removal efficiency at least 95%? | | | | | | | | |

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|-------------------------------|---|-----------------------|----------|-----|
| | | YES | NO | N/A |
| 3. | Are means provided to prevent hydraulic flooding of the column? | | | |
| 4. | Is the column designed to prevent scaling? | | | |
| 5. | Is vapor phase treatment provided, if required? | | | |
| 6. | Is a suitable packing support tray provided? | | | |
| 7. | Are wall wipers or redistributors provided at a minimum of 10 foot intervals to prevent short-circuiting? | | | |
| 8. | Are means provided to drain the column riser pipe? | | | |
| 9. | Are pre and post column water sampling taps provided? | | | |
| 10 | Are means provided to allow for the periodic addition of chlorine for pre-disinfection or of another oxidant or acid for cleaning the medium? | | | |
| 11 | Is the air intake located so as to avoid recirculation of the gas phase discharge from the top of the column? | | | |
| 12 | Are a protective screen of a minimum 24 mesh and air particulate filter on the air intakes provided? | s | | |
| 13 | Is a moisture barrier (demister) provided? | | | |
| 14 | Where multiple sources are being treated, is a back-up blower provided | 1? | | |
| ** | *Submit appropriate engineering plans, specifications, reports, etc. to su | bstantiate your answe | ers. *** | |
| | ereby certify that answers provided herein are accurate and reflective of proval. | the project being con | sidered | for |
| | gnature of Engineer Date ofessional Engineer's Embossed Seal | N | J.P.E. # | |

Type or Print Name of Engineering Firm

pa15g(01/99)